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	Application No.	Applicant(s)
Notice of Allowability	10/708,331	HSIEH ET AL.
	Examiner	Art Unit
	James W. Cranson	2875
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.		
1. This communication is responsive to <u>amendment filed 5/17/2006</u> .		
2. The allowed claim(s) is/are <u>1-20</u> .		
3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some* c) None of the: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: Applicant has TURES MONTUS FROM THE **MANURE RATE ** Athle received in the second content in		
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.		
4. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient.		
 5. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 		
6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.		
Attach mont(s)		
Attachment(s) 1. ☐ Notice of References Cited (PTO-892)	5. Notice of Informal Pa	atent Application (PTO-152)
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0	Paper No./Mail Dato 8), 7. ⊠ Examiner's Amendm	e nent/Comment
Paper No./Mail Date 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Stateme 9. □ Other	nt of Reasons for Allowance
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DETAILED ACTION

EXAMINER'S AMENDMENT

An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Winston Hsu, Patent Agent No 41,526 on 05/26/2006.

The application has been amended as follows:

Claim 1, line 14, delete "overlapping", insert "overlaps", line 15, delete "entering" insert "enter".

Claim 13, line 4, delete "overlapping", insert "overlaps", line 5, delete "entering" insert "enter".

Claim 19, line 3, delete "overlapping", insert "overlaps", line 4, delete "entering" insert "enter"

Cancel new claim 21.

The following is an examiner's statement of reasons for allowance: Instant application claims and discloses a direct back light unit with heat exchange.

Claim 1 includes a backlight unit comprising: a light source generator positioned in a backside of a display panel for providing light beams to display panel; a diffuser positioned between the light source generator and display panel for uniformly scattering light beams from

the light source generator to display panel; and a housing enclosing the light source generator and connecting to diffuser for reflecting the light beams to the diffuser, housing further comprising a heat pipe for being a heat transfer interface between back light unit and an external environment wherein heat pipe overlaps diffuser in a direction as light beams enter display panel from light source generator.

The combination of claimed limitations is not found or taught in the art of record. In particular, the limitation that the heat pipe overlaps the diffuser in a direction as the light beams enter the display from the light source generator is not found or taught in the primary art of record.

Claims 2-12 depend directly or indirectly from claim 1, add further limitations and are allowable for the same reasons.

Claim 13 has substantially the same limitations as claim 1 and adds that the heat pipe has a substantially arc surface.

Claim 13 is allowable for same reasons as claim 1.

Claims 14-18 depend directly or indirectly from claim 1, add further limitations and are allowable for the same reasons.

Claim 19 has substantially the same limitations as claim 1 and adds that the heat pipe has a rough surface.

Claim 19 is allowable for same reasons as claim 1.

Claim 20, depends from claim 19, adds further limitations and is allowable for the same reasons.

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Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Any inquiry concerning this communication or earlier communications from the examiner should be directed to James W. Cranson whose telephone number is 571-272-2368. The examiner can normally be reached on Mon-Fri 8:30A.M.- 5:00P.M..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sandy O'Shea can be reached on 571-272-2378. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Sandra O'Shea
Supervisory Patent Examiner
Technology Center 2800